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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/083,926	02/27/2002	Lixiao Wang	10527-395001 / 02-026	4859
<sup>26161</sup> FISH & RICHA	7590 01/05/200 ARDSON PC		EXAMINER	
P.O. BOX 1022			HO, UYEN T	
MINNEAPOLIS, MN 55440-1022			ART UNIT	PAPER NUMBER
	·		3731	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MOI	NTHS	01/05/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
Office flotion Comment	10/083,926	WANG ET AL.				
Office Action Summary	Examiner	Art Unit				
	(Jackie) Tan-Uyen T. Ho	3731				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period in Failure to reply within the set or extended period for reply will, by statute and the provided by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	the mailing date of this communication.  D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>02 C</u>	october 2006.					
	·					
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
•	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-4,6-34 and 36-87</u> is/are pending in the application.						
4a) Of the above claim(s) <u>37-42 and 44-72</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4,6-34 and 36-87</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/c	r election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate				

Application/Control Number: 10/083,926

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## **DETAILED ACTION**

## Response to Arguments

1. Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-4, 6-18, 20-34, 36, 43, 73-87 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vigil et al. (5,336,234) in view of Chen et al. (6,905,743). Vigil et al. disclose an angioplasty dilate balloon carrying cutting elements (19). Vigil et al. also teach that the stiffness of thin outer wall of a dilate balloon is a concern as placing the strips for support the cutting elements and Vigil et al. disclose using a reinforcing strips of metal or stiff plastic attached to the surface of the balloon. Although, Vigil et al. do not disclose a balloon with reinforced wall as claimed for supporting the cutting element, attention is directed to Chen et al. reference which discloses a balloon comprising a polymer matrix material and a plurality of fibers distributed in the matrix material to provide reinforcement thereof wherein the reinforcing fibers or rods being made from materials including fluoropolymer which is considered as a colorant material. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Vigil et al.'s balloon in view of Chen et al. by having

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the reinforcing strips disposed within the wall of the balloon in order to reinforce the balloon as well as to enhance the radial expansion of a balloon to a predetermined extend, but which has minimal longitudinal growing during balloon inflation such that operation can be more precise. Doing so would meet the limitations of the claims.

Regarding the cutting element is carried by the balloon centered over the striped portion, it would have been obvious to one having ordinary skill in the art to place the cutting elements of Vigil et al in line or center over the reinforcing members/rod of the balloon of Vigil et al. in view of Chen et al. so that the portion of the balloon with reinforcing rod/filament would provide better support for the cutting element.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to (Jackie) Tan-Uyen T. Ho whose telephone number is 571-272-4696. The examiner can normally be reached on MULTIFLEX Mon. to Sat..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ANHTUAN NGUYEN can be reached on 571-272-4963. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

(Jackie) Tan-Uyen T. Ho Primary Examiner

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December 26, 2006